

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UOH.001A	APPLICATION NO. 10/821,806
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Tang, et al.	
		FILING DATE April 9, 2004	GROUP 1661

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
JWH	1	5,785,735	07/28/98	Raskin, et al.	N/A	N/A	
JWH	2	5,876,484	03/02/99	Raskin, et al.			
JWH	3	5,927,005	07/27/99	Gardea-Torresdey, et al.			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
JWH	4	Apse, et al. 1999. Salt tolerance conferred by overexpression of a vacuolar Na ⁺ /H ⁺ antiport in <i>Arabidopsis</i> . <i>Science</i> , 285:1256-1258.
JWH	5	Baker, A. J. M. 1981. Accumulators and excluders – Strategies in the response of plants to heavy metals. <i>Journal of Plant Nutrition</i> , 3(1-4):643-654.
JWH	6	Baker, A. J. M. 1989. Terrestrial higher plants which hyper-accumulate metallic elements – A review of their distribution, ecology and phytochemistry. <i>Biorecovery</i> , 1:81-126.
JWH	7	Baker, et al. 2000. Metal hyperaccumulator plants: A review of the ecology and physiology of a biological resource for phytoremediation of metal-polluted soils. In Terry, et al. (Eds.), <i>Phytoremediation of contaminated soil and water</i> (pp. 85-107). Boca Raton, FL: Lewis Publishers.
JWH	8	Banerji, et al. 1971. Isolation of ecdysterone from Indian plants. <i>Phytochemistry</i> , 10:2225-2226.
JWH	9	Banuelos, et al. 1990. Accumulation of selenium in plants grown on selenium-treated soil. <i>Journal of Environmental Quality</i> , 19:772-777.
JWH	10	Bethlenfalvay, G. J. 1992. <i>Mycorrhizae</i> and crop productivity. In Bethlenfalvay, et al. (Eds.), <i>Mycorrhizae in Sustainable Agriculture</i> , 54:1-27. Madison, WI.: ASA/CSSA/SSSA Publication.
JWH	11	Beveridge, et al. 1985. Metal fixation by bacterial cell walls. <i>Can. J. Earth Sciences</i> , 22:1893-1898.
JWH	12	Bradley, et al., 1982. The biology of mycorrhiza in the ericaceae: The role of mycorrhizal infection in heavy metal resistance. <i>The New Phytologist</i> , 91:197-209.
JWH	13	Brodkorb, et al. 1992. Enhanced biodegradation of phenanthrene in oil tar-contaminated soils supplemented with <i>Phanerochaete chrysosporium</i> . <i>Applied and Environmental Microbiology</i> , 58(9):3117-3121.
JWH	14	Brooks, et al. 1978. Copper and cobalt in African species of <i>Aeolanthus</i> Mart. (Plectranthinae, Labiatae) <i>Plant and Soil</i> , 50:503-507.
JWH	15	Brooks, et al. 1979. Hyperaccumulation of nickel by <i>Alyssum</i> Linnaeus (Cruciferae). <i>Proc. R. Soc. London Ser.</i> , 203(B):387-403.
JWH	16	Brooks, et al. 1981. Studies on manganese-accumulating <i>alyxia</i> from New Caledonia. <i>Taxon</i> , 30(2):420-423.
JWH	17	Brooks et al. 1997. Plant hyperaccumulators of metals and their role in mineral exploration, archaeology, and land remediation. In: <i>Remediation of soils contaminated with metals</i> . Proceedings of a conference on biogeochemistry of trace elements, Taipei, Taiwan, Science Reviews Ltr. Northwood USA, pp. 123-133.
JWH	18	Brooks, R. R. 1998. Geobotany and hyperaccumulators. In Brooks (Ed.), <i>Plants that hyperaccumulate heavy metals: Their role in phytoremediation, microbiology, archaeology, mineral exploration and phytomining</i> , Chap. 3, pp. 55-94. New York: CAB International.

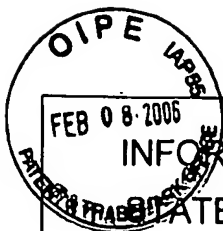
EXAMINER JWH	DATE CONSIDERED 5/26/06
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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JUH	19	Brown, et al. 1994. Phytoremediation potential of <i>Thlaspi caerulescens</i> and bladder campion for zinc- and cadmium-contaminated soil. <i>Journal of Environmental Quality</i> , 23:1151-1157.
JUH	20	Claisse, et al. 1993. Copper contamination as a result of antifouling paint regulations? <i>Marine Pollution Bulletin</i> , 26(7):395-397.
JDU	21	Dobereiner, et al. 1975. Nitrogen fixation in the rhizosphere of tropical grasses. In Stewart (Ed.), <i>Nitrogen Fixation by Free-living Micro-organisms</i> , Chap. 3, pp. 39-56. New York: Cambridge Univ. Press.
JDU	22	Ferris, et al. 1986. Iron-silica crystallite nucleation by bacteria in a geothermal sediment. <i>Nature</i> , 320:609-611.
JDU	23	Gisbert, et al. 2000. The yeast <i>HAL1</i> gene improves salt tolerance of transgenic tomato. <i>Plant Physiology</i> , 123:393-402.
JDU	24	Glenn, et al. 1998. Irrigating crops with seawater. <i>Scientific American</i> , 279:76-81.
JUH	25	Gustavson, et al. 1999. Pollution-induced community tolerance (PICT) in coastal phytoplankton communities exposure to copper. <i>Hydrobiologia</i> , 1:125-138.
JDA	26	Habte, et al. 1993. Effectiveness of VAM fungi in nonsterile soils before and after optimization of P in soil solution. <i>Plant Soil</i> , 151:219-226.
JUP	27	Jindal, et al. 1993. Effect of vesicular-arbuscular mycorrhizae on metabolism of moong plants under NaCl salinity. <i>Plant Physiology and Biochemistry</i> , 31(4):475-481.
JDI	28	Kumar, et al. 1995. Phytoextraction: The use of plants to remove heavy metals from soils. <i>Environ. Sci. Technol.</i> , 29(5):1232-1238.
JUH	29	Malaisse, et al., 1978. <i>Aeolanthus biformifolius</i> De Wild.: A hyperaccumulator of copper from Zaïre. <i>Science</i> , 199:887-888.
JUH	30	Pond, et al. 1984. Improved growth of tomato in salinized soil by vesicular-arbuscular mycorrhizal fungi collected from saline soils. <i>Mycologia</i> , 76(1):74-84.
JUH	31	Reeves, et al. 1995. Abnormal accumulation of trace metals by plants. <i>Mining Environmental Management</i> , 9:4-8.
JUH	32	Reeves, et al. 1983. Hyperaccumulation of lead and zinc by two metallophytes from mining areas of Central Europe. <i>Thlaspi rotundifolium</i> , <i>Alyssum wulfenianum</i> . <i>Environmental Pollution. Series A</i> , 31:277-285.
JUH	33	Saltabas, et al. 1994. Removal of chromium, copper and nickel by water hyacinth (<i>Eichhornia Crassipes</i>). <i>Toxicological and Environmental Chemistry</i> , 41:131-134.
JUH	34	Stephenson, et al. 1994. Evidence for the decline of silver and lead and the increase of copper from 1977 to 1990 in the coastal marine waters of California. <i>Marine Pollution Bulletin</i> , 28(3):148-153.
JUH	35	Tang, et al. 2000. Heavy metal uptake by <i>Elsholtzia hainchowensis</i> Sun and <i>Commelina communis</i> L. grown on contaminated soils. Proceedings of International Conference of Soil Remediation, pp. 228-233.
JDU	36	Vesk, et al. 1997. Spatial variation of copper and lead concentrations of water hyacinth plants in a wetland receiving urban run-off. <i>Aquatic Botany</i> , 59:33-44.

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EXAMINER	DATE CONSIDERED
JUH	5/26/04
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	



PTO/SB/08 Equivalent

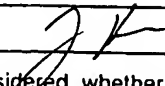
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	10/821,806
	Filing Date	April 9, 2004
	First Named Inventor	Chung-Shih Tang
	Art Unit	3643
(Multiple sheets used when necessary)	Examiner	John D. Holman
SHEET 1 OF 1	Attorney Docket No.	UOH.001A

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

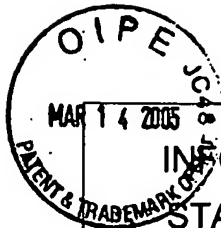
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
JDH	1	International Search Report and the Written Opinion of the International Searching Authority for PCT/US2004/032031 mailed January 24, 2006	

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Examiner Signature 	Date Considered 5/26/06
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T¹ - Place a check mark in this area when an English language Translation is attached.



PTO/SB/08 Equivalent

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	Filing Date	April 9, 2004
	First Named Inventor	Chung-Shih Tang
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Examiner		Jefrey L. Gellner
SHEET 1 OF 1		Attorney Docket No. UOH.001A

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JH	1	2003/0070357 A1	04-17-2003	Shih Ming Huang	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
JH	2	2000-037144	02-08-2000	FUJIMOTO HARUO		✓ (Abstract)
JH	3	2002-262684	09-17-2002	SAGA DENSHI KOGYO KK		✓ (Abstract)
JH	4	09-056278	03-04-1997	RYOKO SERVICE KK		✓ (Abstract)
JH	5	04-121120	04-22-1992	MIRAI NOGYO KOKUSAI KENKYU ZAIDAN		✓ (Abstract)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
JH	6	Invitation to Pay Additional Fees with Annex to Form PCT/ISA/206, Communication Relating to the Results of the Partial International Search for PCT/US2004/032031, dated February 11, 2005.	

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Examiner Signature <i>JH</i>	Date Considered 5/26/06
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